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What is claimed is:

1	1. A circuit assembly comprising:
2	a main assembly board;
3	a main assembly housing; and
4	a pre-assembled partition circuit assembly having a partitioned
5	circuit element mounted within a partitioned circuit housing and a plurality of
6	connectors, said plurality of connectors placing said partitioned circuit element
7	in communication with said main assembly board when said partitioned circuit
8	assembly is inserted into said main assembly board.
1 .	2. A circuit assembly as described in claim 1 wherein said
2	partitioned circuit assembly further includes a heat sink element.
1	3. A circuit assembly as described in claim 1 wherein said
2	partitioned circuit assembly further includes passivation material positioned
3	within said partitioned circuit housing.
1	4. A circuit assembly as described in claim 1 wherein said
2	partitioned circuit assembly further includes a seal element such that said
3	partitioned circuit assembly becomes sealed to said main assembly housing after
4	said partitioned circuit assembly is inserted into said main assembly board.
1	5. A circuit assembly as described in claim 1 wherein said
2	partitioned circuit assembly further includes a heat sink element, said
3	partitioned circuit element mounted to said heat sink element using thermally
4	conductive material.
1	6. A circuit assembly as described in claim 1 wherein said
2	main assembly housing includes at least one main assembly port, said at least
3	one main assembly port allowing said partitioned circuit assembly to be inserted

into said main assembly board through main assembly housing.





1	7. A circuit assembly as described in claim i further
2	comprising at least one communication port therein.
1	8. An engine controller comprising:
2	a main assembly board;
3	a main assembly housing; and
4	a pre-assembled partition circuit assembly having a partitioned
5	circuit element mounted within a partitioned circuit housing and a plurality of
6	connectors, said plurality of connectors placing said partitioned circuit element
7	in communication with said main assembly board when said partitioned circuit
8	assembly is inserted into said main assembly board.
1	9. An engine controller as described in claim 8 wherein said
2	partitioned circuit assembly further includes a heat sink element.
1	10. An engine controller as described in claim 8 wherein said
2 .	partitioned circuit assembly further includes passivation material positioned
3	within said partitioned circuit housing.
1	11. An engine controller as described in claim 8 wherein said
2	partitioned circuit assembly further includes a seal element such that said
3	partitioned circuit assembly becomes sealed to said main assembly housing after
4	said partitioned circuit assembly is inserted into said main assembly board.
1	12. An engine controller as described in claim 8 wherein said
2	partitioned circuit assembly further includes a heat sink element, said
3	partitioned circuit element mounted to said heat sink element using thermally
4	conductive material.
1	13. An engine controller as described in claim 8 wherein said
2	main assembly housing includes at least one main assembly port, said at least
3	one main assembly port allowing said partitioned circuit assembly to be inserted
4	into said main assembly board through main assembly housing.





1	14. An engine controller as described in claim 8 further
2	comprising at least one communication port therein.
1	15. A partitioned circuit assembly for integration into an
2	engine controller comprising:
3	a partitioned circuit element;
4	a partitioned circuit housing surrounding said partitioned circuit
5	element; and
6	a plurality of connectors.
1	16. A partitioned circuit assembly as described in claim 15
2	wherein said partitioned circuit housing includes a heat sink portion, said
3	partitioned circuit element being mounted to said heat sink portion using a
4	thermal connective adhesive.
1	17. A partitioned circuit assembly as described in claim 15
2	wherein the partitioned circuit assembly may be removably mounted to the
3	engine controller.